

Classification

Antidysrhythmic

Prehospital Indications

Cardiac Arrest – Non-Traumatic (adult and pediatric): pulseless ventricular tachycardia or persistent/recurrent ventricular fibrillation (i.e., continued VT/VF after 3 defibrillations)

Other Common Indications

Ventricular tachycardia with pulses and adequate perfusion,
Atrial fibrillation or atrial flutter with rapid ventricular rate unresponsive to other treatments

Adult Dose

300mg (6mL) IV/IO

May repeat 150mg (3mL) IV/IO x1 prn after additional defibrillation x2, max total dose 450mg

Pediatric Dose

5mg/kg (50mg/mL) IV/IO dose per *MCG 1309*, max total dose 300mg

Mechanism of Action

Class III antiarrhythmic agent, which inhibits adrenergic stimulation; affects sodium, potassium, and calcium channels; markedly prolongs action potential and delays repolarization; decreases AV conduction and sinus node function

Pharmacokinetics

Onset minutes after IV bolus administration

Contraindications

None in cardiac arrest

Interactions

None in cardiac arrest

Adverse Effects

Bradysrhythmias
Congestive heart failure
Hypotension

Prehospital Considerations

- Monitor heart rate, blood pressure, and cardiac rhythm closely post resuscitation
- Should not be used routinely in cardiac arrest. For use only in ventricular fibrillation or ventricular tachycardia without pulses unresponsive to attempted defibrillation x2